

QUA·RAE

HERE IS NEWS OF....THE RADIO ASSOCIATION OF ERIE, INC.

VOLUME V NUMBER 3

March, 1974

Editor: Hoppy WA3TRJ
Typist: Jan S.

March RAE Minutes
March RAE Minutes Con'd.
WPA Bulletins
Crawford Cty. News
Repeater Code of Ethics
Novice Class Questions
Novice Class Questions Con't.
Novice Class Questions Con't.
Parc News
Wanted - For Sale
Editors Note
To Ohio Friend
Light Delay Timer

1	Bob Jury	WN3UCX
2		
3	Leo Weiner	W3LOS
4		
5	Ohio Area Repeater Council	
6	"Crawford County"	
7		
8		
9	Bart Geer	W3SN
9,10	Hoppy	WA3TRJ
10		
11		

ERIE'S FINEST AMATEUR RADIO NEWSBULLETIN BY FAR !

RADIO ASSN OF ERIE, INC.
P.O. Box 844
ERIE, PA. 16512

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THIRD CLASS

CHUCK BLILEY, K3NAU
965 ARLINGTON ROAD
ERIE, PA. 16509

The Radio Ass'n. of Erie, Inc. Serving area "Hams" for over 27 years.

Minutes Con't.

Field Day - WA3EAY reported that charts are in process of being completed K3NAU advised that the Bliley Lot is available, and WA3HSR suggested that it might be well to concentrate all efforts on two bands, rather than the full range, as has been done in the past.

BOARD MEETING:

A Board of Directors Meeting is held before the Regular Board Meeting the 4th Thursday of each month. It was reported that W3SLC is to be presented a plaque for the fine service that he has rendered through the years. The presentation to be made by W3AQY.

OLD BUSINESS:

It was suggested that a committee be appointed to investigate the insurance Policy Coverage and to make recommendations for changes that will be needed in the coming year. The Secretary reported that the Insurance Company had been contacted and that they accepted the change in equipment and advised that they would forward a duplicate policy that could be reviewed by the members of the committee.

The membership was advised that K3NAU will be serving as the Temporary Membership Chairman for a while and that he will be accepting the Membership Dues. He stated that there is a need for New Membership Cards.

WA3HSR made the motion that we pay the bill to Caravaglia for Litho supplies.

NEW BUSINESS:

WA3PZQ reported that he has completed repairs on the Teletype Equipment and that it is now ready for use.

WA3HSR made a motion to adjourn at 9:26 P.M.

Present: 6 Officers, 3 Board Members,, 3 others.

Bob Jury - Secretary WN3UCX

The March Meeting of the Radio Association of Erie, Inc., was held at the Red Cross Building, 150 W. Sixth St., on the 7th, at 8:05 P.M. DST. with K3QHO presiding.
The Treasurer's Report showed a present balance of \$423.60.

Correspondence:

- 1) Caravaglia Litho Supplies
1516 Sassafras St., Erie, Pa. 16501 bill for \$4.15
- 2) Waterford Electric
First National Bank, Waterford, Pa., bill for \$8.17.
- 3) C. W. McDowell, 5846 Shepard Road, Ashtabula, Ohio - Contribution for Repeater.
- 4) Forms for the Annual Report to ARRL.

Committees:

Auditing - W3NFM reported that the auditing is completed and that the books are in good order for the present year. The report showed that the Club is in good financial condition. Appreciation was expressed for his fine job.

QUA-RAE - WA3TRJ informed that 211 copies of the QUA were sent out for the month of January. He cited the new postal rates, but stated that this will not affect the Club to any extent. He also pointed out that our QUA would be well taken care of if he could have some help for the final stage. Several members volunteered to help. WA3TRJ also informed that repeater rates have been lowered to \$10 by the year or \$1.00 a month by the monthly rate.

Activities - WA3PZQ reported that the next Activities Meeting will be held at the Naval Reserve Training Center and that the subject will be "Antennas and their Installation." He pointed out that the April Meeting will be by "Bing" Hahn, WA3AWB and will deal with "Room Acoustics." WA3PZQ stated that he was well pleased with the good turnout for the last Activities Meeting and stated that it was a very interesting session.

Hamfest - WA3HSR, K3NAU, K3WIZ, Jack Thompson and others entered into a lively discussion about the planning of this event. Some new ideas with regard to prizes and the basis on which they are elected were presented. It was also felt that the speaker for the occasion should be one of general interest for the entire membership.

Auction - It was decided that this should be in May or June. K3QHO informed that we will not be able to use Park Facilities until after their season starts. It will, therefore, be necessary to search out other resources. K3NAU pointed out the interesting fact that Jamestown, N.Y. uses a Boat House for their auction.

Property - WA3MAU reported that some of the equipment is undergoing repairs at this time but that all will be in readiness for Field Day. He advised that he is preparing the annual Property Report and that it will be turned in as soon as completed.

Minutes Con't on next Page

28 sessions 371 QNI 322 messages

WA3SWF 28	W3SN 13	WB2GVT 3
W3KUN 27	W3KNK 12	WA3KWD 3
K3HCT 23	W3OEO 10	WA3LDA 3
K3VQV 22	K3CB 9	WA3QQR 3
W3LOS 21	W2DSS 9	WB2GBR 2
W3RUL 21	K3SJN 8	W9MUC 2
W2KAT/3 19	WA3IMR 7	K3DZB 1
K3CR 18	WA3RVJ 6	W3HDH 1
WA3TTS 18	W3SIJ 6	W3NGI 1
W3IDO 17	WA3SZX 6	W3WRE 1
K3OFN 17	W3ATQ 4	K3ZNP 1
WA3PXA 15	W3NEM 4	OTHERS 10

NCS:

Sun.....K3CB
 Mon.....W3LOS
 Tues.....WA3SWF
 Wed.....WA3TTS
 Thurs.....W3KUN
 Fri.....W3NEM
 Sat.....W2KAT/3

3RN Reps:

WA3SWF.....27
 WA3PXA.....13
 W2KAT/3.....6
 WA3TTS.....4
 W3KUN.....3
 W3NEM.....2
 W3LOS.....1

CONGRATULATIONS to Phil WA3SWF, who had a perfect score of 28 QNI in February. He also was WPA rep at 3RN 27 times. Such performance is pretty hard to beat. Many thanks, OM!

WE HAVE RECEIVED a letter from Mike WA3LDA. He tells us that he has left the monastery and is living with his parents and looking for a job. He promises to rejoin WPA as soon as he can. He would like to hear from the WPA gang. You can write him at 983 Burgoyne Drive, Cincinnati, Ohio 45245. Good luck, old friend, and God Bless!!

WE ARE HAPPY to hear W2DSS QNI WPA so frequently. What a blessing CW must be to the indomitable Chas, who has lost the use of his voice and depends on the written word (and CW) for communication. He and Vera are celebrating their 60th wedding anniversary this month. Our very best wishes to a pair of wonderful people!

AT A RECENT MEETING of the Penn State Amateur Radio Club the following traffic operators were elected to office: WA2QNT, vice-president; WA3QQR, treasurer; WA3JIH, secretary; and WA3QLG, member of the executive board.

Con't Page

Con't from page 3

THAT'S IT for this month. Next month's WPA bulletin will include a special article contributed by Hank K3CB. Watch for it. So, see you on 3585. Y'all QNI WPA often, y'hear?

Leo B. Weiner, W3LOS

MEETING DIGEST

The meeting opened at 7:45 P.M. Rollcall showed 8 members attending and one arrived late. Minutes of the January 15th meeting were approved as read. Treasurer's report showed \$182.93 in the checking account. One visitor was Ray Jones.

After a discussion on repeater fees, Rog moved "That the club will take over ownership of the repeater and each member who contributed a part to the repeater, will submit a bill, by February 28th, to the club for that part. The club treasury will make payment as soon as sufficient funds are available. The deadline for these payments will be March 1975." 2nd by Gene, approved.

It was moved by Gene, "To install "Auto-Patch" on the WR3ABN Repeater." 2nd by Grant, approved.

Again Gene moved, "That users of "Auto-Patch" would pay a \$1.00 per mo. fee. The cost of initial installation would be paid from the club treasury." 2nd Rog, approved.

Next Dick moved, "To pay Bob \$12.84 for food for the CARS Xmas party." 2nd Grant, approved.

A discussion of candidates for election night was held. Gene, Rog and Dick looked to be the most likely for the top positions.

Gene asked if the general public was aware that 2 meters is monitored 17 hrs per day? Mike and Bob answered that the information was in the process of distribution now.

The meeting adjourned at 9:25 P.M. and was followed by a lecture on VSWR by Mike.

A

WR3ABN ON CHOPPING BLOCK

THIS REPORTER WAS VERY STARTLED to learn that unless the repeater assessments are paid by March, 31st the WR3ABN repeater MAY cease to function. All Repeater users are asked to please get their dues and fees in before the deadline. Those who are caught a little short can let the Sec/Treas. know and allowances will be made. Send your check to Roger C. Galbraith WA3TCO, RD2 Box 93-2, Guys Mills, Pa. 16327.

A

Ohio Area Repeater Council

REPEATER USER'S CODE OF ETHICS

To facilitate standardized logging, transient units are requested to announce their call and time at the beginning of each QSO. Users unfamiliar with any given repeater should check with a local operator as soon as possible for exact operating procedures used in the system.

It is the responsibility of the individual operator to see that only enough power is used to access the repeater through which he intends to work. DXing or trying to simultaneously key a member of repeaters detracts from the usefulness of repeater communications and tends to create hard feelings where none should exist.

Repeated transmitter keying, unidentified transmissions, transmitting music or strange noises, etc., constitute illegal operation and put the station license in jeopardy. Infractions will cause the repeater to be shut down until such operations cease.

Allow sufficient time between transmissions for other stations to join the QSO. Also, there may be emergency or priority traffic and long-winded contacts might prohibit a call of urgent importance.

Amateur repeaters are not to be used for business purposes. This includes the use of autopatches for commercial interests.

Operators are encouraged to use a simplex frequency whenever a satisfactory contact can be made. This makes the repeater available for stations that cannot work direct and saves wear and tear on the equipment.

An atmosphere of friendliness and courtesy should prevail at all times on the repeater system, as many non-amateurs monitor the two-meter frequencies for various reasons. A good image for amateur radio should be uppermost in the minds of all amateur operators.

There is a reciprocity agreement among the members of the Ohio Area Repeater Council and amateur operators are encouraged to welcome and willingly provide assistance to transient amateur operators.

The Above practices and procedures have been unanimously adopted by the members of the Ohio Area Repeater Council and all amateurs using these repeaters are requested to abide by them.

STUDY QUESTIONS FOR ELEMENT 2 EXAMINATION
FOR NOVICE CLASS AMATEUR RADIO OPERATOR LICENSE

A. RULES AND REGULATIONS

- A.2.1. What is the Amateur Radio Service?
- A.2.2. What Part of the Federal Communications Commission's Rules govern the Amateur Radio Service? What are the maximum penalties for violating those rules?
- A.2.3. The Rules encourage and improve the Amateur Radio Service by providing for advancing skills in what two phases of the radio art?
- A.2.4. What is the definition of an amateur radio operator? Of an amateur radio station?
- A.2.5. For how long is a Novice Class license valid? May it be renewed?
- A.2.6. May a transmitting station be operated in the Amateur Radio Service without being licensed by the Federal Communications Commission?
- A.2.7. Who may hold an amateur radio station license?
- A.2.8. Where must an amateur radio operator license be retained? An amateur radio station license?
- A.2.9. Who is responsible for the proper operation of an amateur radio station?
- A.2.10. What is the definition of a control operator? Who may be the control operator of an amateur radio station?
- A.2.11. What is the log of an amateur radio station? What information must it contain? How long should it be preserved?
- A.2.12. What are the frequency privileges authorized to Novice Class licensees?
- A.2.13. What are the emission privileges authorized to Novice Class Licensees?
- A.2.14. What is the maximum transmitter power privilege authorized to Novice Class Licensees?
- A.2.15. What are the Rules regarding the measurement of the frequency of emissions from an amateur radio station?

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B. RADIO PHENOMENA

- B.2.1. How fast do radio waves travel in free space (in meters per second)?
- B.2.2. What is the relationship between the frequency and the wavelength of a radio wave? What are the approximate wavelengths for the frequency bands available to Novice Class licensees?
- B.2.3. How are radio signals transmitted across great distances? Which of the amateur radio frequency bands available to Novice Class licensees are most likely to result in long distance communication during the daylight hours? At night?

C. OPERATING PROCEDURES

- C.2.1. When transmitted by telegraphy, what is the meaning of each of the following: CQ, DE, K, AR, SK?
- C.2.2. What is the RST reporting system? What is the meaning of "RST 579?"
- C.2.3. What are "Q signals?" What is the meaning of QRM? The meaning of QRS? The meaning of QRU? The meaning of QRZ? The meaning of QTH? The meaning of QSL?
- C.2.4. In what manner should a transmitting frequency be selected for an amateur radio station? What additional factors should be considered when selecting a transmitting frequency near one end of the authorized frequency band?

D. EMISSION CHARACTERISTICS

- D.2.1. What is an A1 emission?
- D.2.2. What are the characteristics of a good quality A1 emission?

E. ELECTRICAL PRINCIPLES

- E.2.1. What is electromotive force? Current? Electrical power? What are their units of measurement?
- E.2.2. What is direct current? Alternating current? How can alternating current be converted into direct current?
- E.2.3. What is a cycle? A kilocycle? A megacycle? A hertz? A kilohertz? A megahertz?
- E.2.4. What is the relationship between a fundamental frequency and its second harmonic? Third harmonic?

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Con't from page 7

- E.2.5. What is: Resistance? Inductance? Capacitance? What are the units of value for each?
- E.2.6. What is "r.f.?"

F. PRACTICAL CIRCUITS

- F.2.1. Draw the schematic diagram of a circuit having the following components:
- | | |
|--------------------------------------|---------------|
| (a) battery with internal resistance | (c) voltmeter |
| (b) resistive load | (d) ammeter |
- F.2.2. From the values indicated by the meters in the circuit of F.2.1., how can the value of the resistive load be determined? How can the power consumed by the load be determined?
- F.2.3. In the circuit of F.2.1., what must the value of the resistive load be in order for the maximum power to be delivered from the battery?
- F.2.4. Draw the schematic diagram of an r.f. power amplifier circuit having the following components:
- | | |
|----------------------------|-------------------------|
| (a) triode vacuum tube | (e) plate voltage meter |
| (b) Pi-network output tank | (f) rf chokes |
| (c) high voltage source | (g) bypass capacitors |
| (d) plate current meter | (h) coupling capacitor |
- F.2.5. What is the proper tune-up procedure for the circuit of F.2.4?

G. CIRCUIT COMPONENTS

- G.2.1. What is an insulator? A conductor? A semiconductor? Give an example of each.
- G.2.2. Draw the schematic symbol of a resistor, a capacitor, an inductor, a transformer, a choke.
- G.2.3. Draw the schematic symbol of a diode. A transistor. A triode vacuum tube.

H. ANTENNAS AND TRANSMISSION LINES

- H.2.1. What is a dipole antenna?
- H.2.2. What is a half-wave antenna? What are the approximate lengths (in feet) for half-wave antennas for the frequency bands authorized for Novice Class licensees?

JON WANTS TO SELL

Now, we gots ourselves some problems here, hear? Seems tho' WA3UCQ has his eyes on a rig but has no bread. Now he's willin' to sacrifice an HW16 in mint condx with VFO and speaker for \$90, a Heath GR 54 general coverage receiver 3-35 MHz for \$25, and an HV 18V verticle antenna for \$10. Oh yea, he's got a Johnson Viking II laying around that he'll let go for \$25. Now, even if y'all aren't looking around for these items, spread the word around so's he can get some scratch to go out and pick up a Hot Water 100 to get on the phone bands. Now WA3UCQ is also known as Jon Wagner and he resides at 418 West 9th here in Erie. Phone 456-5431.

PARC

WA3UCS NOW PRESIDENT OF PARC

Tom Hawes, WA3PRC, who was President of the Radio Club, has announced his resignation as President of Presque Isle Amateur Radio Club. In his place, he appointed WA3UCS, Steve Crossman, to replace him. Tom felt as though the club should best be placed in the hands of the younger hams who have a closer knit group and can muster new life in the PARC. This Executive shift takes place immediately. Steve is a newcomer to ham radio having passed his novice ticket in January, 1973 and got his general ticket in September, 1973. Steve works in the electronics field in addition to hamming activities. Welcome!

PARC

WANTED

A BC 453 - In good working order.

Bart Geer W3SN

SALE OR TRADE

2 - BC 454, 1 - BC 459 & 1 - BC 696

Bart Geer

EDITOR'S NOTE

The QUA-RAE has been late the last few months due to problems with the Multi Lith. We are working very hard to get this straightened out so that the news letter is ledgible and can be read by all who receive it.

At this time, I would like to ask my fellow amateurs, both in the RAE and PARC, or any other amateur club to submit low band articles for publication in the QUA-RAE.

In this edition you will find articles from other clubs, as you have in the past, due to lack of writers for our newsletter.

con't on next page

Con't from page 9

Needless to say, we will continue to reprint articles that we believe are interesting, even though they are not low band articles. If we didn't, we would really not have a newsletter at all. I would like to give you my qualifications to be editor. Really I have none. My desire is to keep the newsletter going. At times, I do, get discouraged and would like to say to --- with it. This happens only when I receive nothing. Seems as tho everybody either is too busy to jot down something or else life is so hum drum that they think no one will read what they would write. My answer to that question or idea is to try us on for size.

The QUA-RAE has been instrumental in selling some of those pieces of gear that people (amateurs) seem to want to get rid of.

Also, another interesting thing is every now and then when we are getting panned for illegible copies, etc., along comes someone who really makes our day with, "Hey fella you are doing a fine job."

In closing, may I say hurrray for amateur radio. May it forever be, but lets get with it, and move out. Inform others and thus be informed by others also.

EDITOR, WA3TRJ

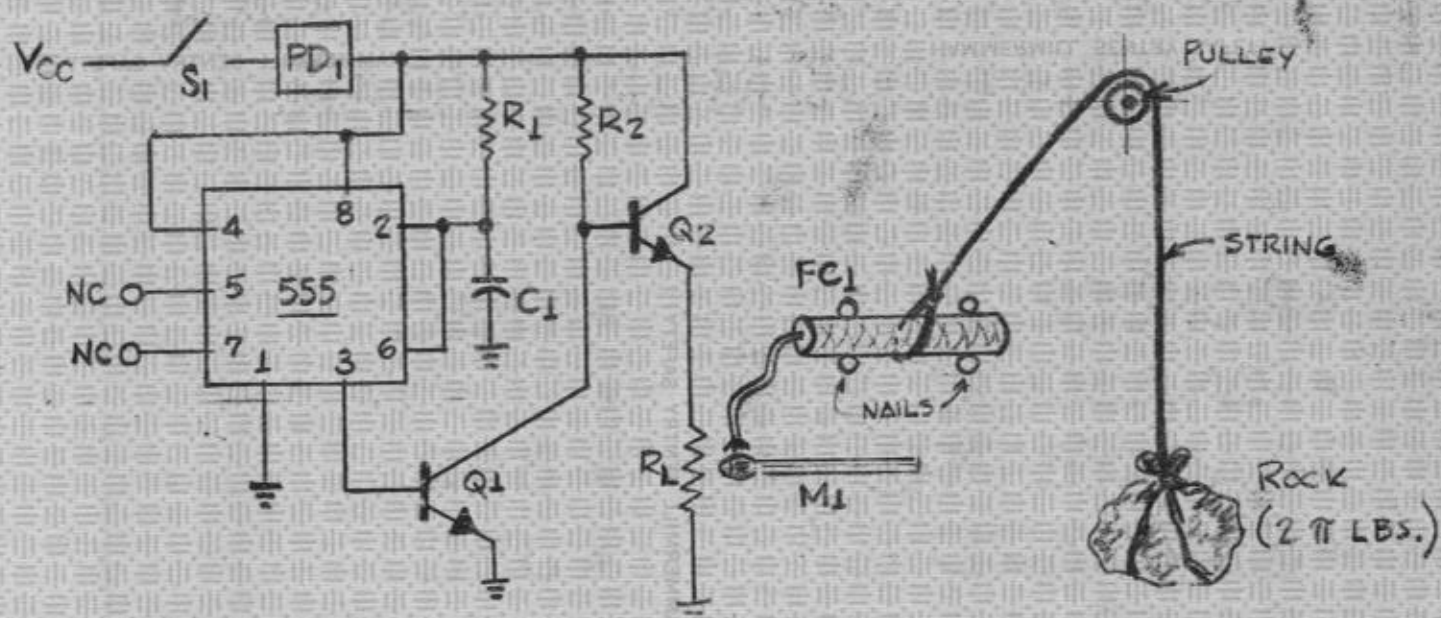
TO OHIO FRIEND

In reply to your note, all questions have been answered but one, "Regency". It is in this editor's opinion "great". At a fair price and made in the Good old U.S.A.

EDITOR, WA3TRJ

DELAYED LIGHT TURNOFF

Reprinted from "THE LINK" NEWSBULLETIN



R_L - 5Ω $\frac{1}{8}$ WATT WIRE WOUND

DESIRED TIME CONSTANT
DETERMINED BY VALUE OF
 R_1 AND C_1



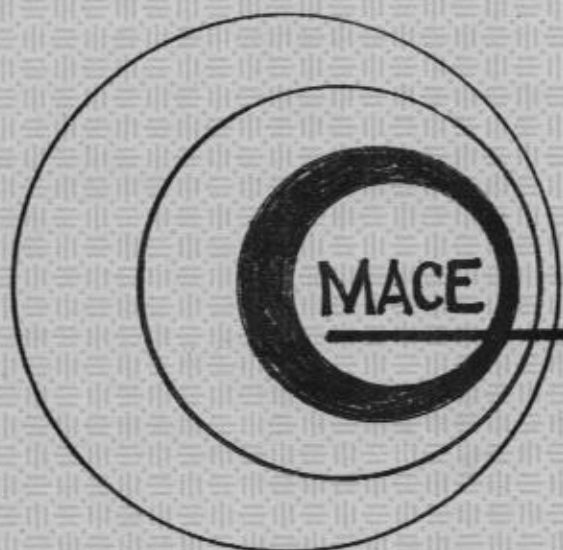
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